



Amendments to the Specification

On page 1, please replace Paragraphs 0001 and 0002, and their headings, with the following sections:

Cross-Reference to Related Applications

[0001] This application claims priority to and the benefit of U.S. Provisional Application Serial No. 60/462,449, filed on April 11, 2003. This application is also a continuation-in-part of and claims priority to co-pending, commonly assigned, U.S. Patent Application Serial No. 10/412,632, filed on April 11, 2003. This application is also a continuation-in-part of and claims priority to co-pending, commonly assigned, U.S. Patent Application Serial No. 10/797,525, filed on March 10, 2004, which is a continuation of commonly assigned, U.S. Patent Application Serial No. 10/336,887, filed on January 6, 2003, which is a continuation of commonly assigned, U.S. Patent Application Serial No. 09/584,230, filed on May 31, 2000, now U.S. Pat. No. 6,550,320. This application is also believed to be related to the following issued patents and pending applications, all of which are hereby incorporated herein by reference in their entirety: U.S. Pat. Nos. 5,895,854; 5,913,240; 5,926,017; 5,964,265; 6,161,431; and 6,308,758; U.S. Patent Application Ser. No. 09/584,230 and U.S. Patent Application Ser. No. 60/462,449.

Field of the Invention

[0002] The present invention relates generally to the field of tire dynamics and more specifically to detecting changes in tire status, e.g., changes in tire pressure and changes that might indicate an imminent tread separation or other failure, using measurements relating to tire deformations.